AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Please amend the present claims as follows.

1. (Currently Amended) A method of producing a magnetic disk <u>for use in a magnetic disk apparatus of a load/unload system</u>, comprising:

forming at least a magnetic layer on a disk substrate, and

thereafter forming a carbon-based protection layer by plasma CVD using a mixed gas of a hydrocarbon-based gas and a nitrogen gas without containing an inactive gas under the condition that the disk substrate with the magnetic layer formed thereon is kept at a temperature higher than 200°C,

wherein the mixed gas contains no hydrogen gas.

wherein a content of the nitrogen gas with respect to the hydrocarbon-based gas falls within a range between 0.5% and 6%.

2. (Original) A method according to claim 1, wherein:

the mixed gas is a mixture of a low-molecular-weight straight-chain hydrocarbon-based gas and a nitrogen gas.

3. (Original) A method according to claim 1, further comprising:

exposing the carbon-based protection layer to nitrogen plasma after forming the carbon-based protection layer.

4. (Original) A method according to claim 3, further comprising:

forming a lubrication layer after exposing the carbon-based protection layer to nitrogen plasma.

5. (Cancelled)

AMENDMENT UNDER 37 C.F.R. § 1.116 Attorney Docket No.: Q79869

Application No.: 10/775,063

6. (New) A method according to claim 1, wherein:

B/A of a Raman spectrum falls within a range of 1.2 to 1.5 in the carbon-based protection layer, B/A of the Raman spectrum being a ratio between a maximum peak intensity (B) of Raman spectrum as measured and a maximum peak intensity (A) of Raman spectrum after removal of background due to photoluminescence.

7. (New) A method according to claim 2, wherein:

the low-molecular-weight straight-chain hydrocarbon-based gas is acetylene.